

Math 212
Requiz 19C

F 11 Nov 2016 / N 13 Nov 2016

Your name: _____

Exercise

(5 pt) Let $f : \mathbf{R}^2 \rightarrow \mathbf{R}$ be the function given by

$$f(x, y) = x^2y - 2xy^2 + 3xy + 4.$$

(a) (3 pt) Find all critical points of f . *Hint:* There are exactly four.

(b) (2 pt) Classify each critical point as a local minimum, local maximum, or saddle point.